

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application.

1. (Currently Amended) A spring device comprising[:]

a coil spring case formed of right, left, back and front side plates and a spring receiving plate,

a coil spring ~~having a linear spring property~~, and

a spring urging member inserted into the coil spring case through an opening of said coil spring case for compressing the coil spring in said coil spring case so that the coil spring is deformed along a curve so as to have a non-linear spring property, ~~for urging the coil spring into the coil spring case~~, a distance between the right and left side plates of the coil spring case being set a little larger than an outer diameter of the coil spring, and a distance between the back and front side plates of the spring case being set larger than the distance between the right and left side plates of the coil spring case. about 1.5 to 2 times larger than the outer diameter of the coil spring, ~~and a length of the spring case being set smaller than a free length of the coil spring, wherein the coil spring is deformed and a non-linear spring property is obtained when the coil spring is urged by the spring urging member.~~

2. (Original) The spring device as claimed in claim 1, wherein a ratio of the distance between the right and left side plates and the distance between the back and front side plates is varied arbitrarily.

3. (Cancelled)

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4. (Cancelled)
5. (New) The spring device as claimed in claim 1, wherein said curve is an S curve.
6. (New) The spring device as claimed in claim 2, wherein said curve is an S curve.